U.S. DEPARTMENT OF COMMERCE
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PB-260 327

SUMMARY REPORT ON QUALITY OF INTERSTATE WATERS
GRAND RIVER (NORTH DAKOTA - SOUTH DAKOTA)

PUBLIC HEALTH SERVICE
WASHINGTON, D. C.

MARCH 1963

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U.S.DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

MARCH 1963

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U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

BIBLIOGRAPHIC DATA SHEET	1. Report No.	2.	3. Recipient's Accession No. PB-260 327
4. Title and Subtitle Summary Report on Quality of Interstate Waters, Grand River (North Dakota - South Dakota)			5. Report Date Mar 63 6.
7. Author(s)			8. Performing Organization Rept. No.
9. Performing Organization Name and Address Public Health Service, Washington, D. C.			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address			13. Type of Report & Period Covered 14.

15. Supplementary Notes

See also PB-260 326.

16. Abstracts

Tabular data are presented regarding the Grand River in northwestern South Dakota and north central South Dakota. Information is given on: sources of pollution, interference with water uses, adequacy of treatment measures, action of official agencies, nature of delays in abating pollution, and time schedule for proposed remedial action.

17. Key Words and Document Analysis. 17a. Descriptors

17b. Identifiers/Open-Ended Terms

*Water quality
*Water pollution sampling
Grand River
North Dakota
South Dakota
Tables(Data)
Stream flow
Water supply
State agencies
Construction
Water pollution control equipment

17c. COSATI Field/Group 13B

18. Availability Statement	19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 8
	20. Security Class (This Page UNCLASSIFIED	22. Price

Library
Environmental Protection Agency
Region VII

SUMMARY REPORT ON QUALITY OF INTERSTATE WATERS

GRAND RIVER

(NORTH DAKOTA-SOUTH DAKOTA)

This report, one of a series developed by the Public Health Service, is a factual presentation of conditions which exist in a specific location or area, based on data and information furnished by State, Interstate and Federal agencies concerned. This report is a brief summary of such material in the files of the Public Health Service as of the time the report is issued. The report will be revised from time to time to reflect new information and changing conditions.

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service

March 1963

SUMMARY REPORT ON QUALITY OF INTERSTATE WATERS
GRAND RIVER
(NORTH DAKOTA-SOUTH DAKOTA)

(Data Current to March 1, 1963)

I. LOCATION

The Grand River rises in extreme northwestern South Dakota and flows easterly until it joins the Missouri River (river mile 1198[1/]) in north central South Dakota. The North Fork of the River crosses the North Dakota-South Dakota State line in two places (river mile 209-64 and 209-134) and it is this stream with which this summary will be concerned. The North and South Forks merge at river mile 209.

Bowman, North Dakota is the largest municipality in the report area, and Buffalo Creek (river mile 209-59), Lightning Creek (river mile 209-64), and Spring Creek (river mile 209-97) are major tributaries.

II. SOURCES OF POLLUTION

TABLE NO. 1 - BASIC DATA ON SOURCES OF POLLUTION [2/]

Municipality or Industry	River Miles Above Mouth	Sewered Population	P. E. Waste Before Treatment	Nature of Wastes	Treatment Provided	P.E. Discharge to Watercourse
Grand River						
North Fork Grand River	209					
State Line (N.D.-S.D.-N.D.)	209-134					
Spring Creek	209-97					
Bowman, N.D.	209-97-35	1,300	1,300	Munic.	Lagoon	0

1/ All Missouri River mileages have been updated in accordance with the U.S. Army Corps of Engineers' 1960 figures.
2/ Region VI files and the appropriate States involved.

TABLE NO. 1 - BASIC DATA ON SOURCES OF POLLUTION 2/

Municipality or Industry	River Miles Above Mouth	Sewered Population	P. E. Waste Before Treatment	Nature of Wastes	Treatment Provided	P. E. Discharge to Watercourse
North Fork Grand River	209					
State Line (N.D.-S.D.)	209-64					
Buffalo Creek	209-59					
Reeder, N. D.	209-59-18	290	290	Munic.	Lagoon	0
State Line (N.D.-S.D.)	209-59-1E 3/					

TABLE NO. 2 - STREAM FLOW DATA IN CFS 4/

No. and Location of Gaging Station	River Mile	Years of Record	Average	Maximum	Minimum
6-3550 N. Fork Grand River at Haley, N. D.	85E	25	30.1	14,100	0
6-3555 N. Fork Grand River near White Butte, S.D.	12E	16	62.9	30,900	0

III. INTERFERENCE WITH WATER USES

None.

IV. ADEQUACY OF TREATMENT MEASURES

The treatment facilities at Bowman and Reeder, North Dakota are adequate.

3/ E - Estimated

4/ U. S. Department of the Interior, Geological Survey, 1961 Surface Water Records of North Dakota and South Dakota, Government Printing Office.

V. ACTION OF OFFICIAL AGENCIES

The cooperative State-Federal report, "Central Missouri River Drainage Basin" of June 1952, recommended that the municipality of Bowman, North Dakota, enlarge its treatment facilities. This community recently constructed a lagoon which provides satisfactory treatment of its wastes.

TABLE NO. 3 - PUBLIC HEALTH SERVICE GRANTS FOR CONSTRUCTION OF WASTE TREATMENT FACILITIES 5/

Municipality	Date Approved	Amount	Estimated Total Cost of Project	Type of Project	Status of Project
Reeder, N. D.	2/12/57	$3,086	$14,293	Lagoon	Completed

VI. NATURE OF DELAYS IN ABATING POLLUTION

None.

VII. TIME SCHEDULE FOR PROPOSED REMEDIAL ACTION

None.

5/ U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Water Supply and Pollution Control, Project Register, March 31, 1963

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1. Federal Security Agency, Public Health Service, Departments of Health of Nebraska, South Dakota, North Dakota, and Wyoming, Central Missouri River Drainage Basin - A Cooperative State-Federal Report on Water Pollution, June 1952, PHS Publication No. 130.

2. U. S. Department of the Interior, Geological Survey, 1961 Surface Water Records of North Dakota and South Dakota, Government Printing Office.

3. U. S. Department of Health, Education, and Welfare, Public Health Service, Division of Water Supply and Pollution Control, Project Register, March 31, 1963